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USWEST

Glenn Brown
Executive DirectorPublic Policy

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APR 21 1998
SEDERAL COMMANDITIONS COMMISSION
OFFICE OF THE SECRETARY

April 21, 1998

Ms. Magalie Roman Salas, Secretary Federal Communications Commission 1919 M Street, NW, Room 222, SC-1170 Washington, DC 20554

RE: Dockets CC 96-45, 97-160

Dear Ms. Roman Salas:

Today, Kathleen Abernathy, Vice President,-Federal Regulatory and Glenn Brown, Executive Director-Public Policy, both of U S WEST, met with Paul Gallant, Legal Advisor to Commissioner Gloria Tristani, to discuss Universal Service issues. The attached charts were used during our discussion.

In accordance with Section 1.1206(a)(2) of the Commission's Rules, the original and four copies of this letter, are being filed with your office for inclusion in the public record for the above-mentioned proceedings. Acknowledgment of date of receipt of this transmittal is requested. A duplicate of this letter is provided for this purpose.

Please contact me if you have questions.

Sincerely,

Attachments

cc: Paul Gallant

UNIVERSAL SERVICE OVERVIEW

April 21, 1998



UNIVERSAL SERVICE PROBLEM

- Goal of Low Basic Service Prices
- High Degree of Rate Averaging
- Two Sources of Historical Universal Service Subsidy
 - 1. Explicit

 2. Implicit

 Toll/Access
 Business
 Urban

 About \$1B

 \$5B \$19B

 Local
 Residence
 Rural
- Telecom Act of 1996 Changed Everything



IMPACTS OF 1996 ACT

- Prices Must Be Just, Reasonable and Affordable
- Implicit Support Must Be Replaced by Explicit Support
 - Specific
 - Predictable
 - Sufficient
- Customers in Rural and High-Cost Areas <u>Should Have</u> <u>Services (Including Access to Advanced Services) and</u> <u>Prices Comparable to Those in Urban Areas</u>
- Phased Implementation of New Explicit Support (Per FCC)
 - "Non-Rural" LECs

January 1, 1999

• "Rural" LECs

- 2001 Through 2003
- Ability to raise basic service prices will be limited



THE FCC's DECISION

- Issued May 8, 1997
- Schools and Libraries
 - \$2.25B Fund
 - Funding Based on State and Interstate Revenues
 - Sliding Scale of Discounts
- Rural, Insular and High Cost Areas
 - Funding 75% States / 25% Federal
 - "Non-Rural" Telephone Companies
 - Support = Forward-Looking Cost Benchmark
 - 14 Month Process to Select Proxy Cost Model
 - "Rural" Telephone Companies
 - Continue Present Mechanisms
 - Transition to Forward-Looking Mechanism Beginning in 2001



KEY ELEMENTS FOR UNIVERSAL SERVICE FUNDING

- 1. Structure of the Fund
 - National Fund
 - 25% Interstate / 75% Intrastate
 - Alternatives ??
- 2. Amount of Funding Required
 - The Proxy Cost Models
- 3. Targeting of Support
 - Statewide Averages
 - Wire Center Averages
 - Below the Wire Center
- 4. Removal of Implicit Support



FUNDING STRUCTURE

- The FCC Decision Requires a 75/25 Split of Funding Between the State and Federal Jurisdictions
- 75/25 Will Threaten Affordability in Some States
 - Primary Drivers:
 - Number of High Cost Customers
 - Range of Costs
 - Number of Low Cost Customers to Spread Burden Over



Funding Alternatives

1. NATIONAL FUND

National % =

National Funding Requirements

State + Interstate Revenues

2. SEPARATE STATE AND INTERSTATE FUNDS

State % =

75% Of State Funding Requirements

State Revenues

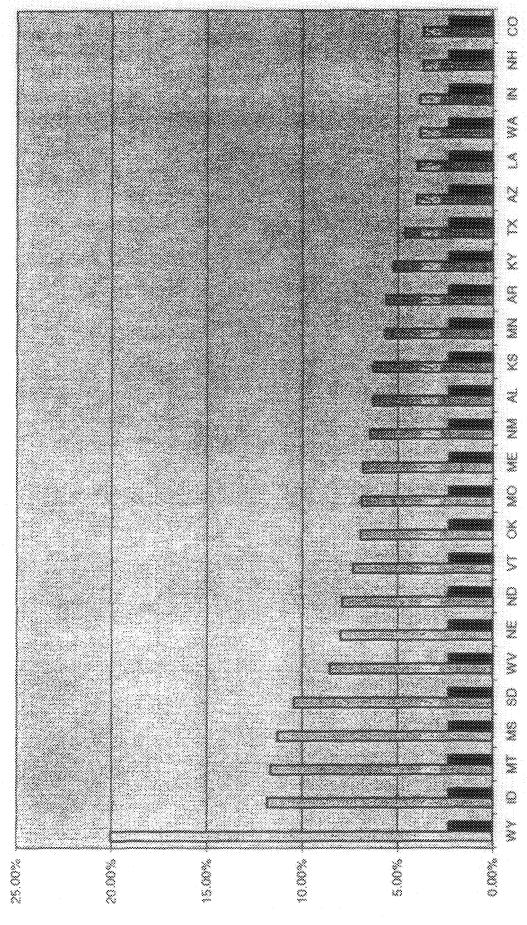
Interstate % =

25% Of National Funding Requirements

Interstate Revenues



COST USF % 7525 MINATIONAL FUND %

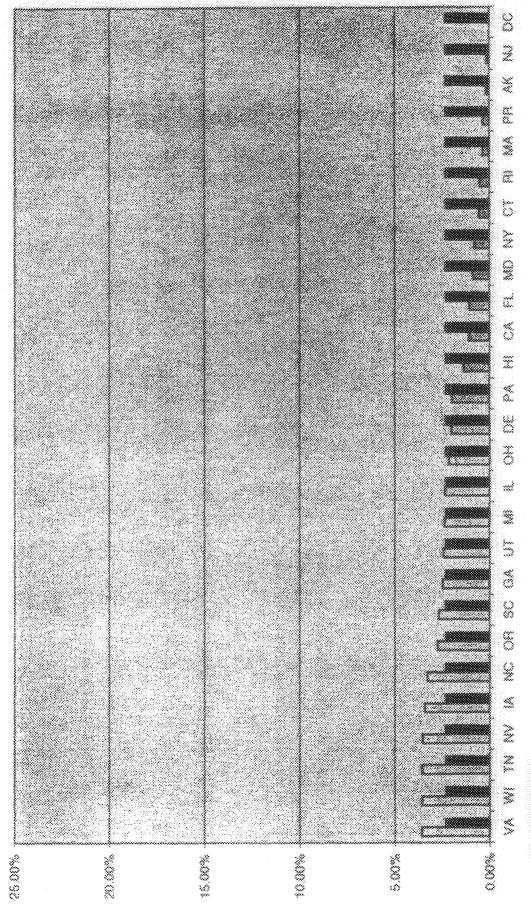




Note: This chart assumes a food size of \$4.58 desived from using FCC "common inputs" in the BCPM3 model. The actual food size will be determined after completion of further proceedings to finalize model inputs.

Non-Aural LECs FCC "Common Inputs (\$4.58 Fund)

COST USF % 75/25 MRATIONAL FUND %

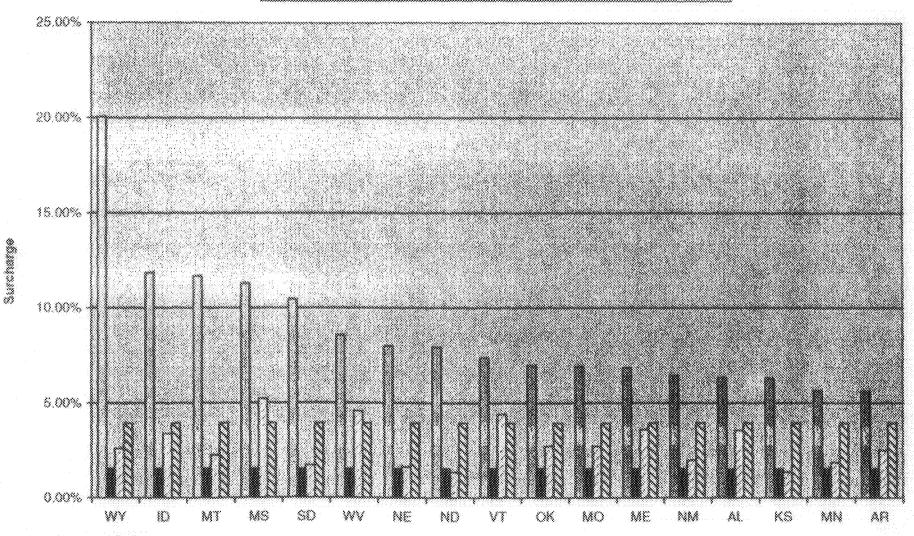




Note: This chart assumes a final size of \$4.58 derived from using FCC "common inputs" in the BCPM3 medel. The setual fourd size will be determined after completion of further proceedings to finalize model injusts.

Non-Rural LECs, Common Inputs (1 0/3)

□ST USF % 75/25 ₩IS USF % 75/25 □ST U6F % 30/50 ໝIS USF % 30/50

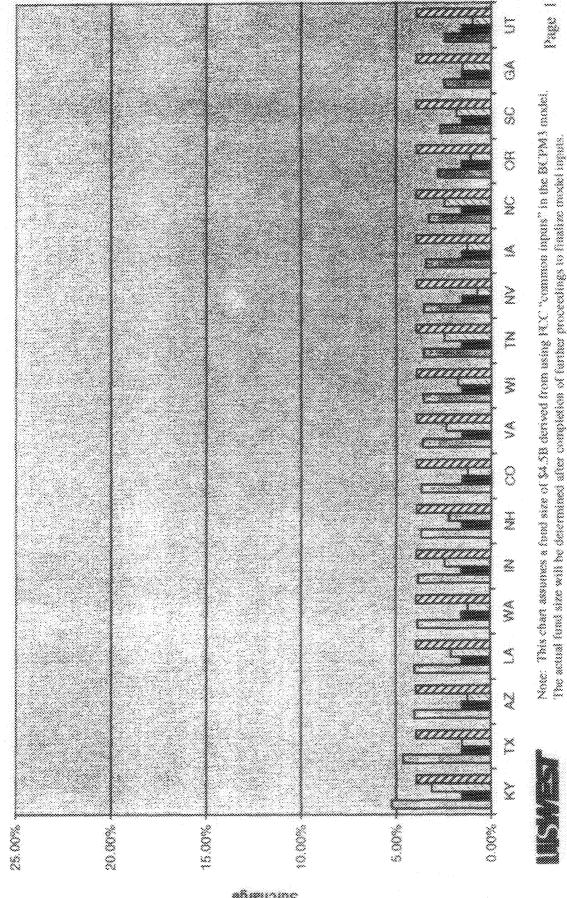


Note: This chart assumes a fund size of \$4.5B derived from using PCC "common inputs" in the BCPM3 model. The actual fund size will be determined after completion of further proceedings to finalize model inputs.

Page 10

Non-Rural LECs, Common Inputs (2 of 3)

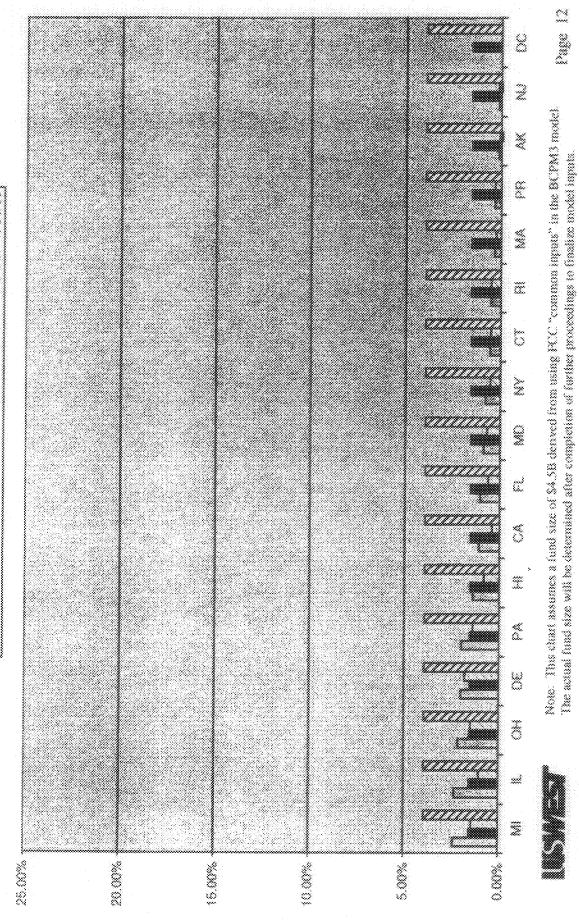
% 75.25 EST USF % 3050 BIS USF % 30.60



ebiegoing

Non-Pural LECs, Common Imputs (3 of 3)

081 USF % 7525 8KS USF % 7525 081 USF % 3050 8KS USF % 3550



STEGON LSOD ANONA BEL

The Contemporary

- HAI (formerly Hatheld) Model (AT&T and MCI)

Benchmark Cost Proxy Model (U.S.WEST, BellSouth and Sprint)

The Issues:

- Customer Location

Loop Design

Input Factors

* Material Prices

Capital Cost Factors

Objectives of the Study

Universal Service Funding

Unbundled Network Elements (UNEs)



FCC PROXY CRITERIA

- 1. Technology must be least cost and not impede provision of advanced services.
- All network functions must have an associated cost.
- 3. Only long-run forward-looking costs may be included.
- 4. Rate of return must be current FCC or State prescribed.
- 5. Depreciation rates must be within FCC-authorized range.
- 6. Must include the cost of serving all businesses and households.
- 7. Reasonable allocation of joint and common costs.
- 8. The model and all underlying data, formulae, computations and software must be available to all interested parties. All data must be verifiable, engineering assumptions reasonable, an outputs plausible.
- 9. Must be able to modify critical assumptions and engineering principles.
- 10. Must deaverage support to the wire center, and if possible, the CBG, CB or grid cell.



SUPATEON TO NOSTATION

NON TYLON

BCPM3 wDefault Inputs

BCPM3 w/Common Inputs

*

HAI 5.0 w/Common Imputs

8 8 9

HAI 5.0 w/Default Inputs

* Common inputs were prescribed by PCC Staff to facilitate comparison of models. Neither model sponsor endorses these inputs as the correct basis for the determination of high-cost support.



COMPARISON OF COMMON INPUT RUNS

	80	(12 (SN))	Fund Size (SNS)			
		Center		*****		
Ameritech \$121.	£.	9:28	\$3.80		8	8
Bell Atlantic	V.					
Bell South \$472.						
S S						
gai te d						
Offices			8 8 8			
Total	371.5%		8.03.84.80			

* Common inputs were prescribed by FCC Staff to facilitate comparison of models. Neither model spousor endorses these inputs as the correct basis for the determination of high-cost support.



DIFFERENCES ARE EVEN WIDER AT THE STUDY AREA LEVEL

	Monthly Cost			High Cost Funding		
	HAL5.0a	ICPV3		HALSON	BCPV3	DIN
North Dakota	\$28.61	\$35.78	80%	\$12.2M	\$22.1M	55%
Montana	\$31.32	\$42.30	74%	\$24.3M	\$39.7M	61%
New York	\$20.79	\$21.74	98%	\$84.1M	\$58.6M	143%
Maryland	\$22.80	\$23.31	98%	\$31.7M	\$16.0M	199%



^{*} Common inputs were prescribed by FCC Staff to facilitate comparison of models. Neither model sponsor endorses these inputs as the correct basis for the determination of high-cost support.

USE OF GEOCODEDED DATA

HAI SO USES GEOCODED DATA TO DEFINE "CLUSTERS" OF CUSTOMERS ONCE BOUNDARIES OF CLUSTER ARE DEFINED, GEOCODED DATA IS DISCARDED

UNIFORMLY DISTRIBUTED WITHIN THE CLUSTER, AND THE RT FOR NETWORK DESIGN, CUSTOMERS ARE ASSUMED TO BE IS LOCATED AT THE CENTER OF THE CLUSTER

ABILITY TO ACCURATELY GEOCODE CUSTOMERS

GEOCODING IS DONE FROM CUSTOMER ADDRESSES

GOOD "HIT RATE" IN URBAN AREAS, POOR IN RURAL

LOCATION "ASSUMED" FOR NON GEOCODED CUSTOMERS



REASONS FOR DIFFERENCES

- BCPM3 USES A SMALLER DESIGN AREA, AND ADDITIONAL DATA
 - BCPM3 USES SMALL "GRIDS"
 - BCPM3 USES GEOCODED ROAD DATA TO ASSIGN CUSTOMERS TO GRIDS, AND LOCATE CUSTOMERS WITHIN GRIDS
 - BCPM3 PRESERVES THIS CUSTOMERS LOCATION DATA THROUGHOUT THE NETWORK DESIGN PROCESS
- BCPM3 PROVIDES A MORE GRANULAR VIEW OF NETWORK DESIGN AND COSTS
- HAI USES A PROPRIETARY ALGORITHM TO LOCATE
 CUSTOMERS AND DESIGN PLANT WHICH
 SYSTEMATICALLY UNDER-PROVIDES DISTRIBUTION
 PLANT



PUTTING IT IN PERSPECTIVE

- 1. "FORWARD-LOOKING" INVOLVES CERTAIN CONCESSIONS TO REALITY:
 - Networks aren't built with one "efficient" build-out
 - Planners do not have perfect knowledge
 - Today's "forward-looking" is tomorrow's "embedded"
- 2. THE HAI MODEL ASSUMES THE MOST OPTIMISTIC CASE IN EVERY CASE:
 - Perfect structure sharing
 - Eclectic mix of state-of-the-art and antiquated technologies, running flat-out
 - The HAI network exists in the mind of the economist, not the world of the engineer



PUBLIC POLICY PERSPECTIVES

MAJOR OBJECTIVES

- Encourage local market entry
- Price at cost (TELRIC)
- Keep the costs low

IF COSTS ARE UNDERESTIMATED

- More competitors enter market (through resale)
- Adverse financial impact to the incumbent

IF COSTS ARE OVERESTIMATED

Local entry discouraged

UNIVERSAL SERVICE

MAJOR OBJECTIVES

- "Specific, Predictable and Sufficient" support
- Affordable rural service
- Access to advanced services

IF COSTS ARE UNDERESTIMATED

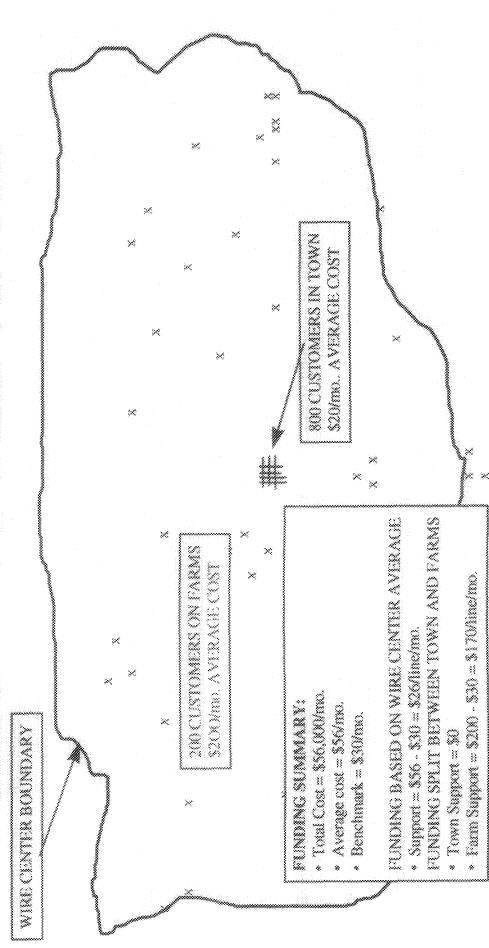
- Providers will not construct facilities to serve high-cost rural areas
- Rural rates will rise
- Rural customers will not have access to advanced services

IF COSTS ARE OVERESTIMATED

- ILECs and others will overpay to fund
- "Gaming" of the system

UNE pricing may involve incentives to err on the low side. However underestimation of costs for universal service support can have severe public policy consequences. The HAI model was developed primarily for UNE pricing, and tends to understate costs. The BCPM attempts to neither understate nor overstate forward-looking costs.







RATE REBALANCING

- Removal of implicit support presents a once-in-a-career opportunity to rebalance rates.
- The greater the rate rebalancing freedom granted by regulators, the smaller will be the size of the required explicit support fund.
- Rate rebalancing should benefit the evolution of competition.

